




Handwritten initials and a crossed-out number 2181 with a dollar sign.

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service, as first class mail, postage prepaid, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1415, Washington, D.C. 20231, on February 27, 2007.

Dated: February 27, 2007

  
Kevin L. Russell

Atty. Docket No.  
7146.0120

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Van Beek, et al.

Group Art Unit: 2181

U.S. Pat. App. No.: 10/058,869

Examiner: TBD

Filed: January 28, 2002

Customer No.: 55648

Title: SEGMENTATION METADATA FOR AUDIOVISUAL CONTENT

**INFORMATION DISCLOSURE STATEMENT  
IN ACCORDANCE WITH 37 CFR §1.98**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants submit herewith four sheets of Form PTO-1449 (Modified) listing the patents and non-patent publications of which Applicants are aware and which Applicants desire to have considered by the Patent Office in accordance with 37 CFR §1.97. In accordance with 37 CFR §1.97(c)(2), this Information Disclosure Statement is being submitted after the mailing date of a first Office Action on the merits of the above-identified application. Accordingly, enclosed is the required fee of \$180.

In accordance with 37 CFR §1.97(h), the filing of this Information Disclosure Statement will not be regarded as an admission that any patent or publication or combination of patents and

non-patent publications referred to herein is, or is considered to be, material to patentability under 37 CFR §1.56(b) unless specifically designated as such.


The Examiner is requested to initial Form PTO-1449 and return an acknowledgment copy to the Applicant to confirm that the listed references were received and considered.

The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor and the information in his file.

Respectfully submitted,

**CHERNOFF, VILHAUER, McCLUNG & STENZEL**

By: \_\_\_\_\_

  
Kevin L. Russell, Reg. No. 38,292  
1600 ODS Tower  
601 SW Second Avenue  
Portland, OR 97204  
Tel: 503-227-5631  
Fax: 503-228-4373

Dated: February 27, 2007



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

of

### Complete if Known

Application Number	10/058,869
Filing Date	January 28, 2002
First Named Inventor	Van Beek et al.
Art Unit	2181
Examiner Name	TBD
Attorney Docket Number	7146.0120

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US- 4,324,402	04-13-1982	Klose	
		US- 5,012,334	04-30-1991	Etra	
		US- 5,222,924	06-29-1993	Shin et al.	
		US- 5,241,671	08-31-1993	Reed et al.	
		US- 5,288,069	02-22-1994	Matsumoto	
		US- 5,381,477	01-10-1995	Beyers, II et al.	
		US- 5,404,316	04-04-1995	Klingler et al.	
		US- 5,410,344	04-25-1995	Graves et al.	
		US- 5,444,499	08-22-1995	Saitoh	
		US- 5,483,278	01-09-1996	Strubbe et al.	
		US- 5,550,965	08-27-1996	Gabbe et al.	
		US- 5,600,781	02-04-1997	Root et al.	
		US- 5,694,163	12-02-1997	Harrison	
		US- 5,696,965	12-09-1997	Dedrick	
		US- 5,727,129	03-10-1998	Barrett et al.	
		US- 5,758,257	05-26-1998	Herz et al.	
		US- 5,758,259	05-26-1998	Lawler	
		US- 5,764,916	06-09-1998	Busey et al.	
		US- 5,781,188	07-14-1998	Amiot et al.	
		US- 5,794,210	08-11-1998	Goldhaber et al.	
		US- 5,809,426	09-15-1998	Radojeric et al.	
		US- 5,822,537	10-13-1998	Katseff et al.	
		US- 5,828,809	10-27-1998	Chang et al.	
		US- 5,828,839	10-27-1998	Moncreiff	
		US- 5,835,087	11-10-1998	Herz et al.	
		US- 5,848,396	12-08-1998	Gerace	
		US- 5,867,226	02-02-1999	Wehmeyer et al.	
		US- 5,877,821	03-02-1999	Newlin et al.	
		US- 5,878,222	03-02-1999	Harrison	
		US- 5,907,324	05-25-1999	Larson et al.	
		US- 5,913,030	06-15-1999	Lotspiech et al.	
		US- 5,920,360	07-06-1999	Coleman Jr.	
		US- 5,930,783	07-27-1999	Li et al.	
		US- 5,945,988	08-31-1999	Williams et al.	
		US- 5,977,964	11-02-1999	Williams et al.	
		US- 5,995,094	11-30-1999	Eggen et al.	
		US- 6,005,565	12-21-1999	Legall et al.	
		US- 6,005,597	12-21-1999	Barrett et al.	
		US- 6,006,265	12-21-1999	Rangan et al.	
		US- 6,020,883	02-01-2000	Herz et al.	
		US- 6,029,195	02-22-2000	Herz	
		US- 6,041,323	03-21-2000	Kubota	
		US- 6,049,821	04-11-2000	Therault et al.	
		US- 6,060,167	05-09-2000	Morgan et al.	
		US- 6,064,385	05-16-2000	Sturgeon et al.	
		US- 6,070,167	05-30-2000	Qian et al.	
		US- 6,076,166	06-13-2000	Moshfeghi et al.	
		US- 6,078,917	06-20-2000	Paulsen Jr. et al.	

	US- 6,078,928	06-20-2000	Schnase et al.	
	US- 6,088,722	07-11-2000	Herz et al.	
	US- 6,115,709	09-05-2000	Gilmour et al.	
	US- 6,122,657	09-19-2000	Hoffman Jr. et al.	
	US- 6,128,624	10-03-2000	Papierniak et al.	
	US- 6,133,909	10-17-2000	Schein et al.	
	US- 6,137,486	10-24-2000	Yoshida et al.	
	US- 6,177,931	01-23-2001	Alexander et al.	
	US- 6,185,625	02-06-2001	Tso et al.	
	US- 6,198,767	03-06-2001	Greenfield et al.	
	US- 6,199,076	03-06-2001	Logan et al.	
	US- 6,212,527	04-03-2001	Gustman	
	US- 6,226,678	05-01-2001	Mattaway et al.	
	US- 6,230,172	05-08-2001	Pumaveja et al.	
	US- 6,233,289	05-15-2001	Fredrickson	
	US- 6,233,586	05-15-2001	Chang et al.	
	US- 6,240,406	05-29-2001	Tannen	
	US- 6,252,444	06-26-2001	Hoffberg	
	US- 6,286,140	09-04-2001	Ivanyi	
	US- 6,286,141	09-04-2001	Browne et al.	
	US- 6,298,482	10-02-2001	Seidman et al.	
	US- 6,311,189	10-30-2001	DeVries et al.	
	US- 6,317,718	11-13-2001	Fano	
	US- 6,317,881	11-13-2001	Shah-Nazaroff et al.	
	US- 6,320,624	11-20-2001	Ayer et al.	
	US- 6,339,842	01-15-2002	Fernandez et al.	
	US- 6,342,904	01-29-02	Vasudevan et al.	
	US- 6,370,504	04-09-2002	Zick et al.	
	US- 6,405,371	06-11-2002	Oosterhout et al.	
	US- 6,412,008	06-25-2002	Fields et al.	
	US- 6,421,680	07-16-2002	Kumhyr et al.	
	US- 6,425,133	07-23-2002	Leary	
	US- 6,426,761	07-30-2002	Kanevsky et al.	
	US- 6,426,974	07-30-2002	Takahashi et al.	
	US- 6,438,579	08-20-2002	Hosken	
	US- 6,439,572	08-27-2002	Bowen	
	US- 6,446,261	09-03-2002	Rosser	
	US- 6,487,390	11-26-2002	Virine et al.	
	US- 6,498,783	12-24-2002	Lin	
	US- 6,522,342	02-18-2003	Gagnon et al.	
	US- 6,530,082	03-04-2003	Del Sesto et al.	
	US- 6,535,639	03-18-2003	Uchihachi et al.	
	US- 6,543,053	04-01-2003	Li et al.	
	US- 6,546,555	04-08-2003	Hjelsvold et al.	
	US- 6,553,178	04-22-2003	Abecassis	
	US- 6,571,279	05-27-2003	Herz et al.	
	US- 6,578,075	06-10-2003	Niemenen et al.	
	US- 6,581,207	06-17-2003	Sumita et al.	
	US- 6,587,127	07-01-2003	Leeke et al.	
	US- 6,593,936	07-15-2003	Huang et al.	
	US- 6,594,699	07-15-2003	Sahai et al.	
	US- 6,611,876	08-26-2003	Barrett et al.	
	US- 6,614,987	09-02-2003	Ismail et al.	
	US- 6,658,095	12-02-2003	Yoakum et al.	
	US- 6,678,659	01-13-2004	Van Kommer	
	US- 6,681,395	01-20-2004	Nishi	
	US- 6,697,523	02-24-2004	Divakaran et al.	
	US- 6,704,929	03-09-2004	Ozer et al.	
	US- 6,754,904	06-22-2004	Cooper et al.	
	US- 6,754,906	06-22-2004	Finseth et al.	
	US- 6,766,362	07-20-2004	Miyasaka et al.	
	US- 6,820,278	11-16-2004	Ellis	
	US- 6,868,440	03-15-2005	Gupta et al.	
	US- 6,880,171	04-12-2005	Ahmad et al.	

		US- 6,925,455	08-02-2005	Gong et al.	
		US- 2001/0030664	10-18-2001	Shulman et al.	
		US- 2002/0026345	02-28-2002	Juels	
		US- 2002/0079165	06-27-2002	Wolfe	
		US- 2002/0097165	07-25-2002	Hulme	
		US- 2002/0133412	09-19-2002	Oliver et al.	
		US- 2002/0156909	10-24-2002	Harrington	
		US- 2002/0178135	11-28-2002	Tanaka	
		US- 2002/0190991	12-19-2002	Efran et al.	
		US- 2003/0007555	01-09-2003	Divakaran et al.	
		US- 2003/0072440	04-17-2003	Murray et al.	
		US- 2003/0105682	06-05-2003	Dicker et al.	
		US- 2003/0182663	09-25-2003	Gudorf et al.	
		US- 2003/0187650	10-02-2003	Moore et al.	
		US- 2003/0229900	12-11-2003	Reisman	
		US- 2004/0003041	01-01-2004	Moore et al.	
		US- 2004/0015569	01-22-2004	Lonnfors et al.	
		US- 2004/0030750	02-12-2004	Moore et al.	
		US- 2004/0032486	02-19-2004	Shusman	
		US- 2004/0098754	05-20-2004	Vella et al.	
		US- 2004/0197088	10-07-2004	Ferman et al.	
		US- 2004/0231003	11-18-2004	Cooper et al.	
		US- 2005/0102202	05-12-2005	Linden et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 1250807	10-23-2002	Kirsh et al.		
		JP 09322154	12-12-1997	Takeo		
		JP 08125957	05-17-1996	Hayashi et al.		
		JP 2001-036861	02-09-2001	Yamaguchi		
		JP 2002-503896	02-05-2002		drawings	
		WO 94/14284	06-23-1994	Hendricks et al.		
		WO 99/04143	01-28-1999	Schaeffler et al.		
		WO 99/12194	03-11-1999	Shiraishi		
		WO 01/50753	07-12-2001	Silva et al.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"User Preference Description for MPEG-7," ISO/IEC JTC1/SC29/WG11, MPEG 99/MXXXX, Maui, Hawaii, December 1999, Pages 1-18.	
		"A Proposal for User Preference Descriptions in MPEG-7," ISO/IEC JTC1/SC29/WG11 M5222, MPEG 99, October 4, 1999, Pages 1-6.	
		FRANCIS C. LI et al., "Browsing Digital Video," CHI 2000 April 1-6, 2000, CHI Letters volume 2 issue 1, pp. 169-176.	
		FRANKLIN REYNOLDS, et al. "Composite Capability/Preference Profiles (CC/PP): A user side framework for content negotiation," W3C Note July 27, 1999, <a href="http://www.w3.org/1999/07/NOTE-CCPP-19990727/">http://www.w3.org/1999/07/NOTE-CCPP-19990727/</a> , 15 pages.	
		JOSHUA ALSPECTOR, et al., "Comparing Feature-based and Clique-based User Models for Movie Selection," Digital Libraries 98, Pittsburgh, PA, Copyright ACM 1998, pp. 11 – 18.	
		KATHY BOHRER and BOBBY HOLLAND, editors, "Customer Profile Exchange (CPExchange) Specification," October 20, 2000, Version 1.0, International digital Enterprise Alliance, Inc. (IDEAlliance), pp. 1 – 127.	
		VIKRANT KOBLA, et al. "Detection of Slow-Motion Replay Sequences for Identifying Sports Videos," Laboratory for Language and Media Processing, University of Maryland, College Park, MD 20742-3275, USA, 6 pages.	
		RICHARD J. QIAN, et al. "Description Schemes for Consumer Video Applications," Proposal ID 429, ISO/IEC JTC1/SC29/WG11 – MPEG-7 Proposal, February 1999.	

		FAP Specifications, MPEG-4 Compliant Facial Animation, <a href="http://www.dsp.dist.unige.it/~pok/RESEARCH/MPEG/fapspec.htm">http://www.dsp.dist.unige.it/~pok/RESEARCH/MPEG/fapspec.htm</a> , 4 pages.	
		JOSH BERNOFF, "How Cable TV Can Beat Satellite," WholeView TechStrategy Rsearch, April 2002 Forrester Research, Inc., 400 Technology Square, Cambridge, MA 02139 USA	
		NATHANIEL J. THURSTON, et al. "Intelligent Audience guidance: The New Paradigm in Television Navigation," Predictive Networks, Inc., February 21, 2002, 9 pages.	
		HENRY LIEBERMAN, et al. "Let's Browse: A collaborative Web Browsing Agent," Massachusetts Institute of Technology, 20 Ames Street #E15-305, Cambridge, MA 02139, USA, Copyright ACM 1999, pp. 65 – 68.	
		DDL GROUP, "MPEG-7 Description Definition Language Document V 2," ISO/IEC JTC1/SC29/WG11/N2997, October 1999/Melbourne, 56 pages.	
		DESCRIPTION SCHEME GROUP, "MPEG-7 Generic AV Description Schemes (V0.7)," MPEG 99, October 1999, Melbourne.	
		P. VAN BEEK et al., "MPEG-7 Requirements for Description of Users," ISO/IEC JTC1/SC29/WG11, MPEG99/4601, March 1999, 5 pages.	
		F. PEREIRA, Editor, "MPEG-7 Requirements Document V.9," ISO/IEC JTC1/SC29/WG11/N2859, July 1999/Vancouver (Canada).	
		KAUSHAL KURAPATI, et al., "A Multi-Agent TV Recommender," Adaptive Systems Department, Philips Research Briarcliff, 345 Scarborough Rd., Briarcliff Manor, NY 10510, USA, Date Unknown.	
		JANE HUNTER (DSTC Pty Ltd.), "Text of ISO/IEC CD 15938-2 Information technology – Multimedia content description interface – Part 2 Description definition language," ISO/IEC JTC1/SC29/WG11 N3702, MPEG 00/3702, October 2000 (La Baule).	
		MICHAEL EHRMANTRAUT, et al., "The Personal Electronic Program guide – Towards the Pre-selection of Individual TV Programs," 1996 ACM, pp. 243 – 250.	
		MARC LIGHT, et al., "Personalized Multimedia Information Access," Communications of the ACM, Vol. 45, No. 5, May 2002, pp. 54 – 59.	
		KYOUNGRO YOON, et al., "Proposal of Usage History DS," ISO/IEC JTC1/SC29/WG11, MPEG00/M6259, July 2000, Beijing.	
		JIN-SOO LEE, et al., Editors, "Specification of The UsageHistory DS," ISO/IEC JTC 1/SC 29/WG 11/M5748, March 2000, Noordwijkerhout, pp. 1-6.	
		JIM STROUD, "TV Personalization: A Key Component of Interactive TV," The Carmel Group, 2001, 9 pages.	
		TED LEWIS, "UbiNet: The Ubiquitous Internet Will Be Wireless," DaimlerChrysler Research & Technology North America, 3 pages, date unknown.	
		"User Preference Descriptions for MPEG-7," ISO/IEC JTC1/SC29/WG11, MPEG 99/MXXXX, Maui, Hawaii, December 1999, pp. 1-18.	
		SHINGO UCHIHASHI, et al., "Video Manga: Generating Semantically Meaningful Video Summaries," FX Palo Alto Laboratory, 3400 Hillview Avenue, Palo Alto, CA 94304, USA, pp. 383 – 392.	
		YIHONG GONG, et al., "Video Summarization Using Singular Value Decomposition," C&C Research laboratories, NEC USA, Inc. 110 Rio Robles, San Jose, CA 95134, USA, 2000 IEEE, 7 pages.	
		YIHONG GONG, et al., "Video Summarization with Minimal Visual Content Redundancies," C&C Research Laboratories, NEC USA, Inc., 110 Rio robles, San Jose, CA 95134, USA, 2001 IEEE, pp. 362 – 365.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*